Mosquito Control at Craney Island

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Norfolk District

Craney Island Mosquito Control

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- The public health and quality of life of the Portsmouth community is a top priority.

- We are and will continue to coordinate with Portsmouth to ensure the community's needs are met.

Quality of Life

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- Understand proximity to schools, neighborhoods, and parks
- Desire to be “Good Neighbor” to community
- We are stewards of the environment and take this responsibility seriously.
- DoD policy to ensure public health.

Integrated Pest Management (IPM)

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- **Source Reduction**
  - Land management activities to reduce mosquito habitat.
- **Surveillance**
  - Information gathering and analysis.
- **Larvae Control**
  - Natural predators (i.e. mosquito fish)
  - Pesticides
- **Adult Control**
  - Spraying
  - Adult traps

Current Status of IPM

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– **Source Reduction Efforts**

- Removed the invasive reed, *Phragmites*, from ~35 acres along CIDMMA's southern boundary
- Phragmites prevents the flow of rainwater and provides habitat for mosquito larvae and adults.
- Aggressive grounds maintenance is underway to eliminate areas with high potential to produce mosquitoes.

Before Clearing (14 Dec 04)

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During Clearing (16 Dec 04)

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After Clearing (7 Jan 05)

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Grading to Reduce Standing Water

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Pictures taken 30 Mar 05

Operational Measures

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- Flood containment cells on CIDMMA

Pictures taken

26 Feb 05

Current Status of IPM

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- **Environmental Assessment (EA)**
  - A supplement to the 1996 EA was finalized in February. (125 pages)
  - Two additional larvicides and two herbicides are now available for mosquito control operations.
  - A Finding of No Significant Impact (FONSI) was signed 15 Feb 05.

Current Status of IPM

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- **Control / Surveillance Contracts**
  - Contract for mosquito surveillance and ground control measures in place.
  - Contract for aerial application of larvicides has been advertised.
  - Budget in fiscal year 2005 for these contracts is $145,000.

Current Status of IPM

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- **Larvae Control**
  - Treated 2.5 miles of ditch with 150-day larvicide on 25 Feb 05.
  - Stock mosquito fish in flooded ditches & depressions

Photo by P. Ovenden

Current Status of IPM

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- **Adult Control**
  - Continue aerial spraying with USAF and local contractor. (USAF has scheduled 4 flights for this summer)
  - Use of adult traps to identify mosquito abundance and species.
  - Truck and backpack spraying efforts in areas where adult mosquitoes are seeking refuge.

Interactive Website

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– **Mosquito Control Website:**

http://www.nao.usace.army.mil/mosquitoes/

– Interactive Map includes aerial imagery, surveillance data, spray areas, and a nautical chart.

– Use of Geographic Information Systems (GIS) to track mosquito surveillance & control measures.

IPM

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- **Surveillance**
- **Source Reduction**
- **Larvae Treatment**
- **Adult Spraying**

DoD Contacts

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Thank You!
Any Questions?

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